

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following remarks is respectfully requested.

Claims 1-34 are presently active in this application, and Claims 1, 9, 13, 15, 25 and 29 having been amended by the present Amendment.

In the outstanding Office Action, Claims 1, 9, 10, 13, 15, 18, 29, 30 and 34 were rejected under 35 U.S.C. §102(e) as being anticipated by Mody et al. (US 2002/0181390, hereinafter called "Mody"); Claims 2-7, 16, 17 and 31-33 were objected to as being dependent upon a rejected base claim; however, Claims 8, 11, 12, 14, 19-28 were allowed.

Applicants acknowledge with appreciation the indication of allowable subject matter.

To clarify the claimed invention and thereby to expedite examination, the claims have been amended to state that the recited orthogonal training sequences are derived from a single MIMO training symbol.

In contrast to the claimed invention defined by the amended claims, Mody uses a different approach in performing channel estimation (and synchronisation) for MIMO OFDM systems. In particular, the prior art represented by Mody uses multiple training symbol in time, thereby enabling use of unitary matrices to make the transmit antennas orthogonal.

In contrast, according to the presently claimed invention, the orthogonal training sequences are derived from a single MIMO training symbol. The distinction is noteworthy, insofar as in the prior art, using multiple symbols enables relatively straightforward creation of training sequences, whereas the claimed invention provides the means for using a singular training symbol in order to create training sequences. Applicants respectfully submit that this is clearly advantageous and non-obvious over the teachings of the applied Mody reference.

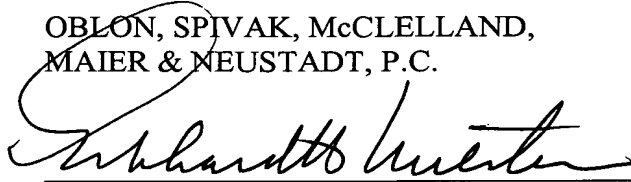
Consequently, in view of the present amendment and in light of the above comments, it is respectfully submitted that the outstanding ground for rejection has been overcome and

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that the pending claims are in condition for allowance. An early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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A handwritten signature in black ink, appearing to read "Eckhard H. Kuesters", written over a horizontal line.

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